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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/816,153	04/01/2004	Frank P. Uckert	PE0669USDIVI	9013

23906 7590 06/15/2006

E I DU PONT DE NEMOURS AND COMPANY
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BARLEY MILL PLAZA 25/1128
4417 LANCASTER PIKE
WILMINGTON, DE 19805

EXAMINER

CHOI, LING SIU

ART UNIT	PAPER NUMBER
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1713

DATE MAILED: 06/15/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

DETAILED ACTION

1. This Application is a Division of US Application Serial Number 10/139,002 filed May 3, 2002, which claims benefit of 60/289,333 filed May 7, 2001.
2. Claims 1-19 were canceled and Claim 20 are now pending.

Claim Objections

3. Claim 20 is objected to because of the following informalities: "or" is suggested to be changed to --and optionally, --.
Appropriate correction is required.

Claim Rejections - 35 USC § 112

4. **The following is a quotation of the second paragraph of 35 U.S.C. 112:**

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claim 20 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 20, lines 28-32, the recitation "with the proviso that....treating the polymer

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with a perfluoroalkylating reagent.....in the presence of a ruthenium (II) catalyst” causes confusion because the present claim is drawn to a process to prepare a polyfluorene having perfluoroalkyl groups. If the polymer has perfluoroalkyl group prior to the process, the present claim should read a process to perfluoroalkylate the perfluoroalkyl-containing polyfluorene.

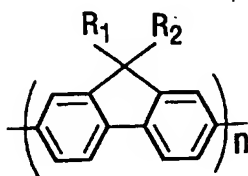
Allowable Subject Matter

6. Claim 20 is allowable over the closest references: Pei et al. (US 5,900,327).

A process to prepare fluorene polymer having perfluoroalkyl groups, comprising	
A	forming a polymer having at least one first monomeric unit having a Formula I and I(a) with the proviso that the polymer contains at least one R substituent of $-C_{\psi}F_{2\psi+1}$
B	treating the polymer with a perfluoroalkylating reagent selected from (i) a perfluoroalkyl iodide and (ii) a perfluoroalkylsulfonyl chloride in the presence of a ruthenium (II) catalyst

(summary of claim 20)

Pei et al. disclose a process to prepare a polymer represented in the general formula of Fig. 1C



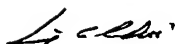
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wherein R_1 is an aliphatic group which includes at least 1 heteroatom-containing polar group, wherein " R_1 typically contains at least about 1 carbon in its aliphatic portion and especially from 1 to 30 carbon atoms" and the polar group comprising ester group and R_2 is an alkyl group containing from about 1 to about 15 carbons (col. 4, lines 30-48; col. 5, lines 7-10; claim 1). However, Pei et al. do not teach or fairly suggest a process to prepare a polymer having at least one substituent having $-C_{\psi}F_{2\psi+1}$.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ling-Siu Choi whose telephone number is 571-272-1098.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu, can be reach on 571-272-1114.



LING-SUI CHOI
PRIMARY EXAMINER

June 5, 2006